



FORM PTO-1449
INFORMATION DISCLOSURE STATEMENT

	ATTY. DOCKET NO.	APPLICATION NO.
	19006.007	09/937,519
	APPLICANTS	
	Guido KRUPP	

371 (c) FILING DATE
March 5, 2002

GROUP
1637

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	REFERENCE PROVIDED*
TS	AA1 4,683,195	07/28/1987	Mullis <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AB1 4,683,202	07/28/1987	Mullis	not required, per 69 Fed. Reg. 56481
	AC1 5,130,238	07/14/1992	Malek <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	ADI 5,256,555	10/26/1993	Milburn <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AE1 5,262,311	11/16/1993	Pardee <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AF1 5,407,800	04/18/1995	Gelfand <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AG1 5,459,037	10/17/1995	Sutcliffe <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AH1 5,514,545	05/07/1996	Eberwine	not required, per 69 Fed. Reg. 56481
	AI1 5,545,522	08/13/1996	Van Gelder <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AJ1 5,561,058	10/01/1996	Gelfand <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AK1 5,599,672	02/04/1997	Liang	not required, per 69 Fed. Reg. 56481
	AL1 5,665,547	09/09/1997	Pardee <i>et al.</i>	not required, per 69 Fed. Reg. 56481
TS	AM1 5,716,785	02/10/1998	Van Gelder <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AN1 5,780,273	07/14/1998	Burg <i>et al.</i> <i>uncited</i>	not required, per 69 Fed. Reg. 56481
TS	AO1 5,837,501	11/17/1998	Beumer <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	API 5,891,636	04/06/1999	Van Gelder <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AQ1 5,932,451	08/03/1999	Wang <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AR1 5,958,688	09/28/1999	Eberwine <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	ASI 5,965,409	10/12/1999	Pardee <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AT1 5,972,607	10/26/1999	Kondo <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AU1 6,090,589	07/18/2000	Dimond <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AV1 6,132,997	10/17/2000	Shannon	not required, per 69 Fed. Reg. 56481
	AW1 6,291,170 B1	09/18/2001	Van Gelder <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AX1 US 6,361,949 B1	03/26/2002	Sommer	not required, per 69 Fed. Reg. 56481
	AY1 US 6,379,932 B1	04/30/2002	Arnold <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AZ1 US 2003/0129624 A1	07/10/2003	Eastman <i>et al.</i>	not required, per 69 Fed. Reg. 56481
TS	BA1 US 2005/0009027 A1	01/13/2005	Krupp <i>et al.</i>	not required, per 69 Fed. Reg. 56481

EXAMINER

Teresa Strelakova

DATE CONSIDERED

4/18/06

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

*Copies of the listed references are either submitted herewith or were previously cited by or submitted to, the Office in a prior application. Pursuant to 37 C.F.R. § 1.97(d) and MPEP §609, the indicated reference may have been previously cited by or submitted to, the Office in a prior application, where the prior application is identified by its U.S. Application Number in this Information Disclosure Statement.



FORM PTO-1449
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.	APPLICATION NO.
19006.007	09/937,519
APPLICANTS	
Guido KRUPP	
371 (c) FILING DATE	GROUP
March 5, 2002	1637

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	REFERENCE PROVIDED*	TRANSLATION
TS ✓ AA2	0 201 184 A2	12/17/1986	EPO	submitted herewith	Yes No
✓ AB2	0 329 822 A2	08/26/1989	EPO	submitted herewith	Yes No
✓ AC2	0 329 822 A3	08/01/1990	EPO	submitted herewith	Abstract & Read only Yes No
✓ AD2	0 329 822 B1	06/08/1994	EPO	submitted herewith	Yes No
✓ AE2	0 416 572 B1	05/17/1995	EPO	submitted herewith (claims only)	X Yes No
✓ AF2	0 525 882 A1	02/03/1993	EPO	submitted herewith	Yes No
✓ AG2	EP 0 525 882 B1	01/14/2004	EPO	submitted herewith	Yes No
✓ AH2	EP 0 592 626 B1	01/29/2003	EPO	submitted herewith	Yes No
✓ AI2	EP 0 707 076 A1	04/17/1996	EPO	submitted herewith	Yes No
✓ AJ2	EP 0 707 076 B1	03/27/2002	EPO	submitted herewith	Yes No
✓ AK2	EP 1 275 734 A1	01/15/2003	EPO	submitted herewith	Yes No
✓ AL2	JP 08/205897 A	08/13/1996	Japan	submitted herewith (abstract only)	X Yes No
✓ AM2	JP 2843675 B2	01/06/1999	Japan; nat'l phase of WO 93/18176 A1, submitted herewith	submitted herewith	X Yes No
✓ AN2	WO 90/14439 A1	11/29/1990	PCT	submitted herewith	Yes No
✓ AO2	WO 92/08800 A1	05/29/1992	PCT	submitted herewith	Yes No
✓ AP2	WO 93/18176 A1	09/16/1993	PCT	submitted herewith	Yes No
✓ AQ2	WO 94/13833 A1	06/23/1994	PCT	submitted herewith	Yes No
✓ AR2	WO 99/47704 A1	09/23/1999	PCT	submitted herewith (abstract only)	X Yes No
✓ AS2	WO 00/18966 A2	04/06/2000	PCT	submitted herewith	Yes No
✓ AT2	WO 00/18966 A3	07/27/2000	PCT	submitted herewith	Yes No

EXAMINER	DATE CONSIDERED
Teresa Strelak	4/18/06

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

*Copies of the listed references are either submitted herewith or were previously cited by or submitted to, the Office in a prior application. Pursuant to 37 C.F.R. § 1.97(d) and MPEP §609, the indicated reference may have been previously cited by or submitted to, the Office in a prior application, where the prior application is identified by its U.S. Application Number in this Information Disclosure Statement.



FORM PTO-1449
INFORMATION DISCLOSURE STATEMENT

	ATTY. DOCKET NO.	APPLICATION NO.
	19006.007	09/937,519
	APPLICANTS	
	Guido KRUPP	

371 (c) FILING DATE
March 5, 2002

GROUP
1637

FOREIGN PATENT DOCUMENTS

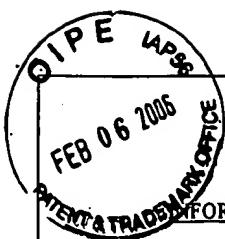
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	REFERENCE PROVIDED*	TRANSLATION
TS ✓ AA3	WO 00/75356 A1	12/14/2000	PCT	submitted herewith	Yes No
✓ AB3	WO 01/71036 A2	09/27/2001	PCT	submitted herewith	Yes No
✓ AC3	WO 01/071036 A3	10/24/2002	PCT	submitted herewith	Yes No
✓ AD3	WO 03/020873 A2	03/13/2003	PCT	submitted herewith	(abstract only) X Yes No
✓ AE3	WO 03/102232 A2	12/11/2003	PCT	submitted herewith	(abstract only) X Yes No
TS ✓ AF3	WO 2004/022574 A2	03/18/2004	PCT	submitted herewith	(abstract only) X Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			REFERENCE PROVIDED*
TS ✓ AG3 Baugh <i>et al.</i> , "Quantitative analysis of mRNA amplification by <i>in vitro</i> transcription", <i>Nucleic Acids Research</i> , 29(5):1-9 (2001)			submitted herewith
✓ AH3 Berger <i>et al.</i> , "Reverse Transcriptase and Its Associated Ribonuclease H: Interplay of Two Enzyme Activities Controls the Yield of Single-Stranded Complementary Deoxyribonucleic Acid", <i>Biochemistry</i> , 22(10):2365-2372 (1983)			submitted herewith
✓ AI3 Boom <i>et al.</i> , "Rapid and Simple Method for Purification of Nucleic Acids", <i>J. Clin. Microbiol.</i> , 28(3):495-503 (1990)			submitted herewith
✓ AJ3 Boularand <i>et al.</i> , "The Human Tryptophan Hydroxylase Gene: an Unusual Splicing Complexity in the 5'-Untranslated Region", <i>J. Biol. Chem.</i> , 270(8):3748-3756 (1995)			submitted herewith
✓ AK3 Bratty <i>et al.</i> , "The hammerhead RNA domain, a model ribozyme", <i>Biochim. Biophys. Acta</i> , 1216:345-359 (1993)			submitted herewith
✓ AL3 Burgin <i>et al.</i> , "Chemically Modified Hammerhead Ribozymes with Improved Catalytic Rates", <i>Biochemistry</i> , 35(45):14090-14097 (1996)			submitted herewith
✓ AM3 Clouet-d'Orval <i>et al.</i> , "Hammerhead Ribozymes with a Faster Cleavage Rate", <i>Biochemistry</i> , 36(30):9087-9092 (1997)			submitted herewith
TS ✓ AN3	Database WPI, AN 96-419828, Abstract of JP 8-205897, Derwent Publications Ltd. (October 1996)		submitted herewith

EXAMINER	DATE CONSIDERED
TERESA STRUELE CLEA	4/18/06

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

*Copies of the listed references are either submitted herewith or were previously cited by or submitted to, the Office in a prior application. Pursuant to 37 C.F.R. § 1.97(d) and MPEP §609, the indicated reference may have been previously cited by or submitted to, the Office in a prior application, where the prior application is identified by its U.S. Application Number in this Information Disclosure Statement.



FORM PTO-1449
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.	APPLICATION NO.
19006.007	09/937,519
APPLICANTS	
Guido KRUPP	
371 (c) FILING DATE	GROUP
March 5, 2002	1637

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

REFERENCE PROVIDED*

TS ✓	AA4	Eberwine <i>et al.</i> , "Analysis of gene expression in single live neurons", <i>Proc. Natl. Acad. Sci. USA</i> , 89:3010-3014 (1992)	submitted herewith
	✓ AB4	Fahy <i>et al.</i> , "Self-sustained Sequence Replication (3SR): An Isothermal Transcription-based Amplification System Alternative to PCR", <i>PCR Methods and Applications</i> , 1:25-33 (1991)	submitted herewith
	✓ AC4	Feinberg <i>et al.</i> , "A Technique for Radiolabeling DNA Restriction Endonuclease Fragments to High Specific Activity", <i>Analytical Biochemistry</i> , 132(1):6-13 (1983)	submitted herewith
	✓ AD4	Frohman <i>et al.</i> , "Rapid production of full-length cDNAs from rare transcripts: Amplification using a single gene-specific oligonucleotide primer", <i>Proc. Natl. Acad. Sci. USA</i> , 85:8998-9002 (1988)	submitted herewith
	✓ AE4	Hames <i>et al.</i> (Eds.), <u>Nucleic acid hybridisation: a practical approach</u> (Practical Approach Series), IRL Press Ltd., pp. 179-202 (1985)	submitted herewith
TS	✓ AF4	Hanne <i>et al.</i> , "Fluorescence resonance energy transfer (FRET) to follow ribozyme reactions in real time", <i>Nucleosides & Nucleotides</i> , 17(9-11):1835-1850 (1998)	submitted herewith
	AG4	International Search Report, Application No. PCT/EP99/07127 (April 7, 2000)	submitted herewith
	AH4	International Search Report, Application No. PCT/EP02/09348 (August 22, 2003)	submitted herewith
	AI4	International Search Report, Application No. PCT/EP03/05579 (December 12, 2003)	submitted herewith
	AJ4	International Search Report, Application No. PCT/EP03/09756 (March 4, 2004)	submitted herewith
TS	✓ AK4	Jenne <i>et al.</i> , "Real-Time Characterization of Ribozymes by Fluorescence Resonance Energy Transfer (FRET)", <i>Angew. Chem. Int. Ed.</i> , 38(9):1300-1303 (1999)	submitted herewith
TS	✓ AL4	Kievits <i>et al.</i> , "NASBA™ isothermal enzymatic in vitro nucleic acid amplification optimized for the diagnosis of HIV-1 infection", <i>J. Virol. Methods</i> , 35(3):273-286 (1991)	submitted herewith

EXAMINER	DATE CONSIDERED
Teresa Stuelecker	4/18/06

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

*Copies of the listed references are either submitted herewith or were previously cited by or submitted to, the Office in a prior application. Pursuant to 37 C.F.R. § 1.97(d) and MPEP §609, the indicated reference may have been previously cited by or submitted to, the Office in a prior application, where the prior application is identified by its U.S. Application Number in this Information Disclosure Statement.



FORM PTO-1449
INFORMATION DISCLOSURE STATEMENT

	ATTY. DOCKET NO.	APPLICATION NO.
	19006.007	09/937,519
	APPLICANTS	
	Guido KRUPP	

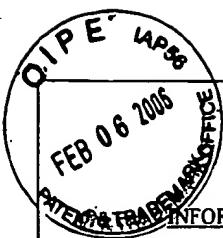
371 (c) FILING DATE
March 5, 2002

GROUP
1637

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			REFERENCE PROVIDED*
TS	AAS	Konarska <i>et al.</i> , "Replication of RNA by the DNA-Dependent RNA Polymerase of Phage T7", <i>Cell</i> , 57:423-431 (1989)	submitted herewith
	AB5	Konarska <i>et al.</i> , "Structure of RNAs Replicated by the DNA-Dependent T7 RNA Polymerase", <i>Cell</i> , 63:609-618 (1990)	submitted herewith
	ACS	Krupp, "Stringent RNA quality control using the Agilent 2100 bioanalyzer", Application Note, Agilent Technologies (2005)	submitted herewith
	ADS	Krupp, "Unusual promoter-independent transcription reactions with bacteriophage RNA polymerases", <i>Nucleic Acids Research</i> , 17(8):3023-3036 (1989)	submitted herewith
	AES	Kuhn <i>et al.</i> , "Specific interaction of the murine transcription termination factor TTF I with class-I RNA polymerases", <i>Nature</i> , 344:559-562 (1990)	submitted herewith
	AFS	Liang <i>et al.</i> , "Differential Display of Eukaryotic Messenger RNA by Means of the Polymerase Chain Reaction", <i>Science</i> , 257:967-971 (1992)	submitted herewith
	AG5	Lockhart <i>et al.</i> , "Expression monitoring by hybridization to high-density oligonucleotide arrays", <i>Nature Biotechnology</i> , 14:1675-1680 (1996)	submitted herewith
	AHS	Löffler <i>et al.</i> , <u>Biochemie und Pathobiochemie</u> , pp. 150-154, Springer-Verlag (1998)	submitted herewith
	AIS	Mahony <i>et al.</i> , "Urine Specimens from Pregnant and Nonpregnant Women Inhibitory to Amplification of <i>Chlamydia trachomatis</i> Nucleic Acid by PCR, Ligase Chain Reaction, and Transcription-Mediated Amplification: Identification of Urinary Substances Associated with Inhibition and Removal of Inhibitory Activity", <i>J. Clin. Microbiol.</i> , 36(11):3122-3126 (1998)	submitted herewith
	AJ5	Mathieu-Daudé <i>et al.</i> , "DNA rehybridization during PCR: the 'C ₀ t effect' and its consequences", <i>Nucleic Acids Research</i> , 24(11):2080-2086 (1996)	submitted herewith
	AKS	Milligan <i>et al.</i> , "Synthesis of Small RNAs Using T7 RNA Polymerase", <u>Methods in Enzymology</u> , Vol. 180, pp. 51-62, Academic Press, Inc. (1989)	submitted herewith
TS	ALS	Mueller <i>et al.</i> , "RNA Integrity Number (RIN) - Standardization of RNA Quality Control", Application Note, Agilent Technologies (2004)	submitted herewith
EXAMINER	TERESA STUELECKA		DATE CONSIDERED 4/18/06

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

*Copies of the listed references are either submitted herewith or were previously cited by or submitted to, the Office in a prior application. Pursuant to 37 C.F.R. § 1.97(d) and MPEP §609, the indicated reference may have been previously cited by or submitted to, the Office in a prior application, where the prior application is identified by its U.S. Application Number in this Information Disclosure Statement.



FORM PTO-1449
INFORMATION DISCLOSURE STATEMENT

	ATTY. DOCKET NO.	APPLICATION NO.
	19006.007	09/937,519
	APPLICANTS Guido KRUPP	
371 (c) FILING DATE March 5, 2002	GROUP 1637	

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			REFERENCE PROVIDED*
TS ✓ AA6	Müller <i>et al.</i> , "Amino Acid Requirements of the Nucleocapsid Protein of HIV-1 for Increasing Catalytic Activity of a Ki-ras Ribozyme", <i>J. Mol. Biol.</i> , 242:422-429 (1994)		submitted herewith
✓ AB6	Nedbal <i>et al.</i> , "The Association of Complementary Ribonucleic Acids Can Be Strongly Increased without Lowering Arrhenius Activation Energies or Significantly Altering Structures", <i>Biochemistry</i> , 36:13552-13557 (1997)		submitted herewith
✓ AC6	Pezo <i>et al.</i> , "Hypermutagenic in vitro transcription employing biased NTP pools and manganese cations", <i>Gene</i> , 186:67-72 (1997)		submitted herewith
✓ AD6	Poirier <i>et al.</i> , "Screening differentially expressed cDNA clones obtained by differential display using amplified RNA", <i>Nucleic Acids Research</i> , 25(4):913-914 (1997)		submitted herewith
✓ AE6	Puskás <i>et al.</i> , "RNA Amplification Results in Reproducible Microarray Data with Slight Ratio Bias", <i>BioTechniques</i> , 32(6):1330-1340 (2002)		submitted herewith
✓ AF6	Richmond <i>et al.</i> , "Genome-wide expression profiling in <i>Escherichia coli</i> K-12", <i>Nucleic Acids Research</i> , 27(19):3821-3835 (1999)		submitted herewith
✓ AG6	Saiki <i>et al.</i> , "Enzymatic Amplification of β-Globin Genomic Sequences and Restriction Site Analysis for Diagnosis of Sickle Cell Anemia", <i>Science</i> , 230:1350-1354 (1985)		submitted herewith
✓ AH6	Sargent, "Isolation of Differentially Expressed Genes", <i>Methods in Enzymology</i> , Vol. 152, pp. 423-432, Academic Press, Inc. (1987)		submitted herewith
✓ AI6	Sarkar <i>et al.</i> , "Access to a Messenger RNA Sequence or its Protein Product is Not Limited by Tissue or Species Specificity", <i>Science</i> , 244:331-334 (1989)		submitted herewith
✓ AJ6	Singh <i>et al.</i> , "Design of Hammerhead Ribozymes to Distinguish Single Base Changes in Substrate RNA", <i>Antisense and Nucleic Acid Drug Development</i> , 6:165-168 (1996)		submitted herewith
✓ AK6	Sioud <i>et al.</i> , "Enhancement of Hammerhead Ribozyme Catalysis by Glyceraldehyde-3-phosphate Dehydrogenase", <i>J. Mol. Biol.</i> , 257:775-789 (1996)		submitted herewith
TS ✓ AL6	Sooknanan <i>et al.</i> , "Nucleic Acid Sequence-Based Amplification", <i>Molecular Methods for Virus Detection</i> , Wiedbrauk and Farkas (eds.), Chapter 12, pp 261-285, Academic Press, Inc. (1995)		submitted herewith

EXAMINER	DATE CONSIDERED
Teresa Stuelecia	4/18/06

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

*Copies of the listed references are either submitted herewith or were previously cited by or submitted to, the Office in a prior application. Pursuant to 37 C.F.R. § 1.97(d) and MPEP §609, the indicated reference may have been previously cited by or submitted to, the Office in a prior application, where the prior application is identified by its U.S. Application Number in this Information Disclosure Statement.



FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO.	APPLICATION NO.
		19006.007	09/937,519
		APPLICANTS	
		Guido KRUPP	
371 (c) FILING DATE		GROUP	
March 5, 2002		1637	
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			REFERENCE PROVIDED*
TS	AA7	Stoflet <i>et al.</i> , "Genomic Amplification with Transcript Sequencing", <i>Science</i> , 239:491-494 (1988)	submitted herewith
	AB7	Taylor <i>et al.</i> , "Chimeric DNA-RNA hammerhead ribozymes have enhanced <i>in vitro</i> catalytic efficiency and increased stability <i>in vivo</i> ", <i>Nucleic Acids Research</i> , 20(17):4559-4565 (1992)	submitted herewith
	AC7	Tyagi <i>et al.</i> , "Multicolor molecular beacons for allele discrimination", <i>Nature Biotechnology</i> , 16:49-53 (1998)	submitted herewith
	AD7	Van Gelder <i>et al.</i> , "Amplified RNA synthesised from limited quantities of heterogeneous cDNA", <i>Proc. Natl. Acad. Sci. USA</i> , 87:1663-1667 (1990)	submitted herewith
TS	AE7	Wyatt <i>et al.</i> , "Synthesis and Purification of Large Amounts of RNA Oligonucleotides", <i>BioTechniques</i> , 11(6):764-769 (1991)	submitted herewith
EXAMINER	Terri Stueckeler		DATE CONSIDERED 4/18/06
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.			
*Copies of the listed references are either submitted herewith or were previously cited by or submitted to, the Office in a prior application. Pursuant to 37 C.F.R. § 1.97(d) and MPEP §609, the indicated reference may have been previously cited by or submitted to, the Office in a prior application, where the prior application is identified by its U.S. Application Number in this Information Disclosure Statement.			